BEST AVAILABLE COPY

12/15/81 U8960-2

ueber

Utah Economic and Business Review

Volume 41
Number 9
September
1981

BEBR

graduate school
of business
bureau of economic and
business research
university of utah

Utah Intercensal Population Estimates for the 1970's

By John E. Brockert, Stephen Kan, and Kenneth E. Jensen*

During each year of the 1970's, the Utah Population Work Committee (now recognized as the Utah Population Estimates Committee of the State Census Data Center) collected measures of population change and prepared annual estimates of the population of the State and each of its 29 counties. Now that the 1980 census population counts for Utah's counties have been finalized, there is considerable demand for revised 1971-1979 county figures. For this reason, the Committee has prepared new county population estimates for the 1970's. These figures are presented in Table 1. Future trend analyses should utilize these revised intercensal estimates as the best available information. The revised estimates for the state totals are in agreement with revised estimates by the Bureau of the Census.

The ratio-correlation method was used to prepare the 1971-1979 revised estimates. In this method, a multiple regression equation is used to relate change in a number of different symptomatic indicators to changes in population distribution. In the regression, measurements of variables are expressed in terms of ratios of the proportions at two points in time. Since actual population data are available only in census years, the model is always constructed for two points in time that are ten years apart. Once a model is constructed, the actual estimation is accomplished by (1) applying the regression co-efficient to the symptomatic indicators of the estimated years to obtain ratios of population proportions, and (2) algebraically transforming the ratios into the county population estimates. The estimated

---

* John E. Brockert and Stephen Kan, Utah Department of Health; Kenneth E. Jensen, Utah Department of Employment Security.

county populations are then adjusted to the independently determined state total population. To derive the revised estimates, four symptomatic indicators were used in the model: LDS Church membership,[1] school enrollment, vital events, and nonagricultural employment; and one dichotomous variable, population growth pattern. Table 1 includes these revised estimates by county and year.

Evaluation of 1979 Estimates

The members of the Utah Population Estimates Committee believe that it is important to evaluate the accuracy of their estimates, especially those for 1979. A rough evaluation can be made by comparing the original 1979 estimates with those newly revised for the same year. This evaluation cannot be precise because the census reference date is April 1, 1980, while the Committee's last population estimates represent July 1, 1979.

As shown in Table 2, the original state estimate was low by only 3.6 percent. The original estimates for nine counties, or 31 percent of the total, were within 2 percent, plus or minus, of the revised estimates; an additional eight counties were within 2 to 5 percent. Nine more counties' original estimates, for a total of 26 (90 percent of all counties), were within 10 percent of the revised figures. The Committee's estimates were highest for the counties of San Juan (+19.0%), Piute (+16.7%), and Morgan (+9.4%). The counties that the Committee under-estimated to the greatest extent were Washington (-10.6%), Summit (-9.2%), and Rich (-7.9%).

These results reinforce several points the Population Work Committee repeatedly tried to make.

1. The further away (in years) from the time of a census of the population, the less confidence can be placed in the estimates. A census of population is needed every five years.

2. Larger populations can be estimated more accurately. The total state population can be estimated within 5 percent, plus or minus, in most instances. Smaller areas, like many counties in Utah, are extremely difficult to accurately estimate. For example, the Committee over-estimated the population of Piute County by 250 persons and the result was a 16.7 percent discrepancy. For Salt Lake County, an estimate off by 36,100 resulted only in a 6.4 percent discrepancy.

3. Revenue allocations or budget restrictions based on estimates of the population for communities that are much smaller than the counties may cause serious inequities. Such population estimates have the real probability of having high error rates.

Considering the high rate of growth that occurred in Utah during the decade of the 70's (37.9 percent increase between 1970 and 1980), the Population Work Committee is pleased to have accurately tracked the state's population growth for nine years. It is similarly gratifying to have detected the population changes in most of Utah's counties. However, it is apparent that, for a few counties, the estimating procedures were quite inaccurate. During the next year the Committee will attempt to improve its estimating methodology.

---

[1] The LDS Church, or the Church of Jesus Christ of Latter-day Saints, makes a yearly December 31 tally of its members, by county of residence. Roughly 70 percent of Utah's population are members of this denomination.

Estimates for July 1, 1980

Employing the usual indicators (public school enrollment, natural increase, and LDS Church membership data), the Committee prepared estimates of the July 1, 1979 to July 1, 1980 population change for each county. The sum of these estimates (rounded to 54,000) is the State's July 1, 1979 to June 30, 1980 population growth.

This number, when added to the July 1, 1979 estimate (1,416,000), produces 1,470,000, the July 1, 1980 estimate. Thus, from April 1 to July 1, 1980, Utah's estimated population increase was nearly 9,000 persons. This increase is 16.6 percent of the 54,000 twelve-month increase. Although this estimate implies slower population growth for April-June, the economic conditions of high interest rates and rising unemployment rates prevailing at that time were not conducive to in-migration. The population growth was, therefore, mainly due to natural increase, numbering roughly 8,000 people.

Population change in the counties from July 1, 1979 to April 1, 1980 is already fixed if the figures are accepted for these two dates. The change from April through June 1980 for each county was assumed to be the same percentage of the 12-month change as experienced by the State. That is, 16.6 percent of each county's calculated 1979-1980 increase was added to the respective 1980 Census count to produce the July 1, 1980 estimates. The unrounded 1979-1980 population estimates and changes are presented in Table 3; these figures are shown only because rounding tends to obliterate or distort the estimated population changes for small counties. However, due to the limited precision of population estimating techniques, it is believed that rounding the county estimates to the nearest 50 and the State estimate to the nearest 1,000 provides the greatest degree of accuracy that is warranted. Thus, the Committee's official preliminary July 1980 population estimates are rounded (Table 1).

The unrounded preliminary estimates show that, from July 1, 1979 to July 1, 1980, every county in Utah increased in population. Numerically, the largest growth occurred in Salt Lake County (24,100 or 4.0%) followed by Utah County (8,100 or 3.8%), Davis County (4,600 or 3.2%), and Weber County (3,300 or 3.8%). The fastest growing counties between 1979 and 1980 were Summit (9.3%), Garfield and Piute (both 7.8%). For counties of more than 10,000 population, the fastest growth occurred in Summit (9.3%), Duchesne (6.5%), Emery (5.4%), Washington (5.4%), and Cache (5.0%). The overall growth rate for the State was 3.8 percent between July 1, 1979 and July 1, 1980.

The ad hoc informal work of the Utah Population Work Committee now identified as the Utah Population Estimates Committee has now been officially included in the responsibilities of the State Census Data Center. The traditional composition and work of the Committee will continue with a few new members. It is expected that this change will give official status to the estimates and also provide additional support to the ongoing efforts to improve the quality of the estimates.

UTAH ECONOMIC AND BUSINESS REVIEW
(Issn 0042 - 1405) Vol. 41 No. 9

Second class postage paid Salt Lake City, Utah Issued monthly except for April - May, July - August, and November - December by the Bureau of Economic and Business Research, University of Utah, at Salt Lake City, Utah

Up to ten copies sent free on request by the Bureau of Economic and Business Research, University of Utah, Salt Lake City, Utah 84112. Additional copies available at ten cents per copy.

Postmaster: Send form 3579 to Mailing Bureau, University of Utah, Bldg. 50, Salt Lake City, Utah 84112

Table 1

POPULATION ESTIMATES FOR UTAH BY COUNTY
FOR JULY 1, 1970 TO JULY 1, 1980

	April 1 1970 Census	Estimated July 1, 1970	July 1, 1971	July 1, 1972	July 1, 1973	July 1, 1974
Total	1,059,273	1,066,000	1,101,000	1,135,000	1,169,000	1,197,000
Beaver	3,800	3,850	3,850	3,850	3,850	3,950
Box Elder	28,129	28,150	28,450	28,800	29,200	29,100
Cache	42,331	42,550	43,150	44,050	45,350	46,850
Carbon	15,647	15,750	16,650	17,200	17,550	17,900
Daggett	666	650	650	600	600	700
Davis	99,028	99,600	107,800	113,300	116,600	119,900
Duchesne	7,299	7,400	8,500	9,900	11,000	11,550
Emery	5,137	5,150	5,600	6,100	6,700	6,800
Garfield	3,157	3,150	3,100	3,100	3,050	3,100
Grand	6,688	6,600	6,550	6,500	6,450	6,500
Iron	12,177	12,300	13,300	14,050	14,200	14,500
Juab	4,574	4,600	4,600	4,700	4,800	5,000
Kane	2,421	2,450	2,800	2,950	3,150	3,250
Millard	6,988	7,050	7,150	7,350	7,400	7,500
Morgan	3,983	4,050	4,050	4,050	4,200	4,350
Piute	1,164	1,150	1,150	1,150	1,200	1,200
Rich	1,615	1,600	1,550	1,550	1,550	1,650
Salt Lake	458,607	461,500	467,300	477,100	491,800	504,500
San Juan	9,606	9,700	9,600	9,850	10,050	10,350
Sanpete	10,976	11,000	11,250	11,400	11,850	11,900
Sevier	10,103	10,150	10,850	11,350	11,750	11,950
Summit	5,879	5,900	6,400	6,900	7,050	7,300
Tooele	21,545	21,600	21,700	21,800	22,150	22,650
Uintah	12,684	12,800	14,100	15,250	16,050	16,950
Utah	137,776	139,300	151,000	160,400	166,100	171,100
Wasatch	5,863	5,950	6,350	6,650	6,700	6,650
Washington	13,669	13,900	15,100	16,150	17,600	18,150
Wayne	1,483	1,450	1,500	1,450	1,500	1,550
Weber	126,278	126,700	127,100	127,600	129,500	130,100

Note: 1) Column may not add to State total due to rounding.
2) The population of Daggett County, as counted in the special census on October 15, 1975, was 782; the population of Piute County, as counted in the special census on October 7, 1975, was 1,250. The estimates shown here have been adjusted to reflect these counts.

Source: Utah Population Estimates Committee.

Table 1 (continued)

	Estimated					April 1, 1980 Census	July 1, 1980 Estimated
	July 1, 1975	July 1, 1976	July 1, 1977	July 1, 1978	July 1, 1979		
Total	1,234,000	1,272,000	1,316,000	1,364,000	1,416,000	1,461,037	1,470,000
Beaver	3,900	4,000	4,150	4,200	4,350	4,378	4,400
Box Elder	29,900	30,100	30,800	31,500	32,350	33,222	33,400
Cache	48,100	50,100	51,700	53,200	54,800	57,176	57,550
Carbon	18,750	19,450	20,150	20,750	21,350	22,179	22,300
Daggett	800	750	700	750	750	769	750
Davis	123,900	128,100	133,200	134,900	142,400	146,540	147,000
Duchesne	11,500	11,150	11,400	11,600	11,850	12,565	12,650
Emery	7,600	8,850	9,700	10,300	11,000	11,451	11,600
Garfield	3,200	3,250	3,350	3,350	3,450	3,673	3,700
Grand	6,900	7,300	7,650	8,100	7,950	8,241	8,250
Iron	14,950	15,500	16,000	16,650	17,050	17,349	17,400
Juab	4,950	5,050	5,150	5,250	5,400	5,530	5,550
Kane	3,350	3,500	3,750	3,850	3,800	4,024	4,050
Millard	7,900	7,950	8,050	8,250	8,550	8,970	9,000
Morgan	4,350	4,500	4,600	4,600	4,800	4,917	4,950
Piute	1,250	1,200	1,200	1,250	1,250	1,329	1,350
Rich	1,700	1,700	1,850	1,800	2,050	2,100	2,100
Salt Lake	521,200	539,400	556,000	576,600	599,100	619,066	623,300
San Juan	10,700	10,750	11,350	11,800	12,150	12,253	12,350
Sanpete	12,150	12,500	13,050	13,650	14,050	14,620	14,700
Sevier	12,550	13,050	13,400	14,000	14,450	14,727	14,800
Summit	7,500	7,850	8,450	8,950	9,500	10,198	10,400
Tooele	23,150	23,550	24,250	24,850	25,450	26,033	26,150
Uintah	17,350	17,500	18,450	19,000	19,800	20,506	20,650
Utah	176,800	184,700	193,700	203,100	211,500	218,106	219,600
Wasatch	7,000	7,200	7,550	7,850	8,000	8,523	8,600
Washington	19,000	20,250	21,550	23,050	25,000	26,065	26,300
Wayne	1,600	1,650	1,700	1,800	1,900	1,911	1,950
Weber	131,900	131,200	133,100	138,800	141,900	144,616	145,200

Table 2

COMPARISON OF POPULATION ESTIMATES
UTAH COUNTIES, 1979

County	Population Work Committee Estimate July 1, 1979	Revised Estimate after 1980 Census July 1, 1979	Actual Difference	Percent Original Estimate Differs from Revised Estimate
State Total	1,367,000	1,416,000	-49,000	-3.6
Beaver	4,400	4,350	+50	+1.1
Box Elder	33,000	32,350	+650	+2.0
Cache	55,000	54,800	+200	-0.4
Carbon	22,000	21,350	+650	+3.0
Daggett	800	750	+50	+6.2
Davis	137,000	142,400	-5,900	-3.9
Duchesne	11,900	11,850	+50	+0.4
Emery	10,800	11,000	-200	-1.9
Garfield	3,800	3,450	+350	+9.2
Grand	7,900	7,950	-50	-0.6
Iron	17,200	17,050	+150	+0.9
Juab	5,700	5,400	+300	+5.3
Kane	3,900	3,800	+100	+2.6
Millard	9,000	8,550	+450	+5.0
Morgan	5,300	4,800	+500	+9.4
Piute	1,500	1,250	+250	+16.7
Rich	1,900	2,050	-150	-7.9
Salt Lake	563,000	599,100	-36,100	-6.4
San Juan	15,000	12,150	+2,850	+19.0
Sanpete	14,800	14,050	+750	+5.1
Sevier	15,000	14,450	+550	+3.7
Summit	8,700	9,500	-800	-9.2
Tooele	24,800	25,450	-650	-2.6
Uintah	19,300	19,800	-500	-2.6
Utah	199,000	211,500	-12,500	-6.3
Wasatch	7,800	8,000	-200	-2.6
Washington	22,600	25,000	-2,400	-10.6
Wayne	1,900	1,900	--	--
Weber	144,000	141,900	+2,100	+1.5

Source: Utah Population Estimates Committee.

Table 3

ESTIMATED POPULATION OF UTAH'S COUNTIES
July 1, 1979 and July 1, 1980
(unrounded estimates)

Counties	July 1 Estimate		Changes	
	1979[r]	1980[p]	Number	Percent
Beaver	4,355	4,391	36	0.8
Box Elder	32,356	33,389	1,933	3.2
Cache	54,819	57,537	2,718	5.0
Carbon	21,375	22,298	923	4.3
Daggett	748	766	18	2.4
Davis	142,447	147,028	4,581	3.2
Duchesne	11,860	12,634	774	6.5
Emery	10,988	11,581	593	5.4
Garfield	3,440	3,707	267	7.8
Grand	7,967	8,255	288	3.6
Iron	17,072	17,417	345	2.0
Juab	5,375	5,558	183	3.4
Kane	3,812	4,052	240	6.3
Millard	8,565	9,020	455	5.3
Morgan	4,778	4,948	170	3.6
Piute	1,239	1,336	97	7.8
Rich	2,030	2,122	92	4.5
Salt Lake	599,119	623,238	24,119	4.0
San Juan	12,125	12,359	234	1.9
Sanpete	14,048	14,709	661	4.7
Sevier	14,452	14,822	370	2.6
Summit	9,494	10,377	883	9.3
Tooele	25,445	26,136	691	2.7
Uintah	19,821	20,649	828	4.2
Utah	211,547	219,648	8,101	3.8
Wasatch	7,999	8,611	612	7.7
Washington	24,980	26,323	1,343	5.4
Wayne	1,883	1,933	50	2.7
Weber	141,861	145,156	3,295	2.3
Total	1,416,000	1,470,000	54,000	3.8

[r]revised.

[p]preliminary.

Source: Utah Population Estimates Committee.

STATE CENSUS DATA CENTER

Utah Population Estimates Committee

The following persons served as members of the Utah Population Estimates Committee and contributed to making the intercensal and July 1, 1986 county population estimates for Utah:

Jeannie Watanabe, Director
State Census Data Center

John E. Brockert
Utah Department of Health

Stephen H. Kan
Utah Department of Health

Kenneth E. Jenser
Utah Department of
Employment Security

Richard Smith
State Department of Education

Moshe Hartman
Utah State University

Frank C. Hachman
University of Utah

Howard C. Neilson
Brigham Young University

Jewell J. Rasmusser
University of Utah

Bruce E. Bailey
Utah Foundation

Gery E. Moore
Utah Department of Health

Jerry Hintz
Church of Jesus Christ
of Latter-day Saints

Kreg Kirkham
Bureau of Land Management

Earl Hodgkins
Health Planning

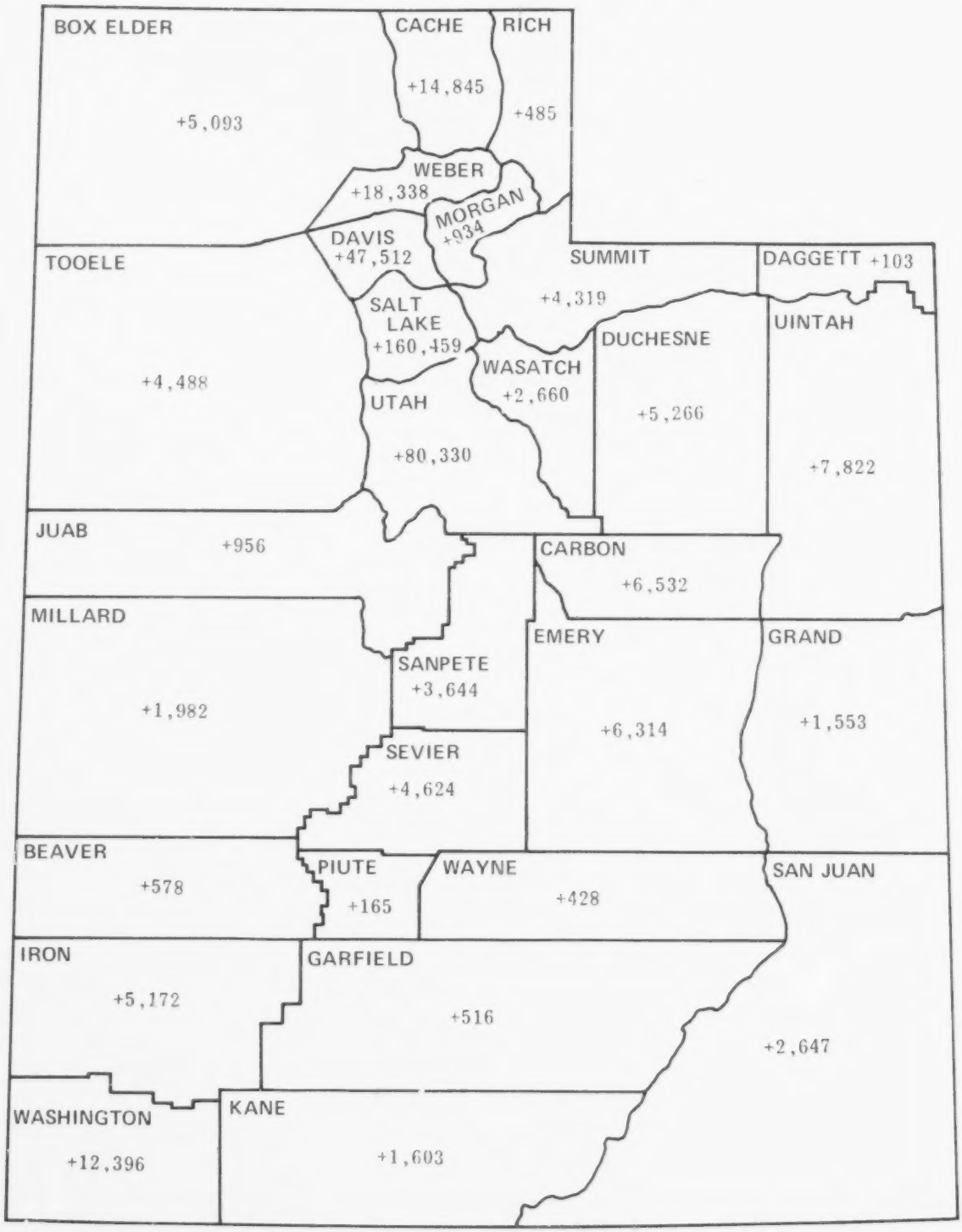
Marvin Levy
Utah Department of Health

Jean Binyon
Utah Dept. of Social SErvices

Joseph Neville
Office of Legislative Fiscal
Analyst

Map 1

CHANGES IN THE POPULATION OF UTAH'S COUNTIES
April 1, 1970 to April 1, 1980



Source: Calculated from data presented in Table 1. Page 9. (At end of article)

Utah Business Statistics

Statewide Statistical Data

	July '981	June 1981	July 1980	% Change From Year Ago	12 Month Average July 1981	12 Month Average July 1980	% Chg.
Agriculture							
Cash Receipts from Farm Marketing (thous. of dol.)	47,056	42,698	46,909	0.3	42,312.8	45,219.6	-6.4
Livestock and Livestock Products (thous. of dol.)	33,214	32,364	28,865	15.1	31,118.3	35,165.8	-11.5
Crops (thous. of dol.)	13,842	10,334	18,044	-23.3	11,196.6	10,052.6	11.4
Avg. Prices Rec'd by Farmers (15th of each mo.)(dol.):							
Beef Steers and Heifers (cwt)(thou.)	65.2	63.3	65.2	0.0	63.1	66.2	-4.7
Lambs (cwt)	64.1	63.0	64.1	0.0	58.8	61.6	-4.6
Turkeys (per lb.)	.44	.46	.44	0.0	na	na	na
Milk, Wholesale (cwt)	12.0	12.8	12.0	0.0	11.4	12.3	-8.9
Alfalfa Hay, Baled (per ton)	73.5	65.0	72.5	1.4	70.8	61.7	14.7
Livestock Slaughtered (live weight):							
Cattle (thous. of lbs)	18,687	17,657	17,826	4.8	18,231.5	16,666.3	9.5
Calves (thous. of lbs.)	na	na	na	na	na	na	na
Sheep and Lambs (thous. of lbs.)	186	206	197	-5.6	222.6	231.0	-3.6
Hogs and Pigs (thous. of lbs.)	3,543	3,305	2,811	26.0	3,187.5	2,867.5	11.2
Finance							
Loans, Total, Utah Member Banks (mil. of dol.)[4]	3,234	3,319	3,132	3.3	3,211	3,162.2	1.6
Investments, Total, Utah Member Banks (mil. of dol.)[4]	940	949	835	12.3	930.5	825.9	12.6
Deposits, Total, Utah Member Banks (mil. of dol.)[4]	4,117	4,125	3,842	7.2	4,036.7	3,891.8	3.7
Demand Deposits of Banks, Total, Utah (mil. of dol.)[4]	68	48	55	23.6	60.6	56.0	8.2
Other Demand Deposits, Total, Utah (mil. of dol.)[4]	1,067	1,005	1,225	-12.9	1,142.9	1,084.2	5.9
Time Deposits, Total, Utah (mil. of dol.)[4]	2,982	3,071	2,562	16.4	2,844.5	2,632.1	8.1
Savings, Savings and Loan Association (mil. of dol.)[b]	1,727.8	1,750.3	1,735.7	-0.5	na	1,694.1	na
Sale of U.S. Savings Bonds--Series E & H (thous. of dol.)	1,301.0	1,116.0	na	na	na	na	na
New Corporation (no.)	509	560	447	13.9	501.7	403.8	24.2
Tax Collections by the State of Utah (thous. of dol.)							
Total Tax Collections	80,657.3	63,[illegible].0	80,115.3	1.8	82,395.4	75,363.8	9.3
Sales & Use Tax	na	4,206.8	4,523.9	na	na	29,529.4	na
Motor Fuel Tax	5,025.8	4,645.1	1,027.5	389.1	5,334.3	4,906.8	8.7
Individual Income Tax	12,158.6	29,877.4	11,580.2	4.9	29,916.5	26,519.8	12.8
Corporation Franchise Tax	1,221.6	1,954.0	7,568	-75.3	4,085.5	4,104.1	-0.5
Employment							
Civilian Labor Force (thous.)[7]	631.8	635.8	641.4	-1.5	639.2	631.7	1.2
Total Employed Persons	590.9	597.9	602.1	-1.9	606.8	606.0	0.1
Unemployed	40.9	43.8	39.3	4.1	32.9	31.0	22.4
Percent Total Labor Force	6.5	6.9	6.1	6.6	5.1	4.9	25.2
Employees on Nonagricultural Payrolls (thous. of jobs)	550.6	554.1	554.1	-0.7	568.3	568.3	0.2
Manufacturing	87.8	88.7	88.9	-1.2	92.8	92.1	0.8
Mining	20.5	20.4	13.6	50.7	18.3	17.6	3.8
Contract Construction	30.4	30.9	27.6	10.2	33.1	36.4	-9.1
Transportation, Communication and Utilities	34.2	34.0	35.1	-2.6	35.5	35.3	0.6
Wholesale Trade	45.6	45.5	45.1	1.4	37.1	36.0	3.2
Retail Trade	93.6	93.5	93.6	0.0	99.8	100.9	-1.1
Finance, Insurance and Real Estate	26.1	26.1	26.7	-2.3	26.9	26.4	1.7
Services[a]	101.5	101.1	101.3	0.1	105.4	103.7	1.7
Federal Government	37.8	37.9	37.8	0.0	37.9	37.2	1.9
State Government[c]	30.6	31.1	30.5	0.3	33.7	33.3	1.2
Local Government[c]	52.5	55.6	54.2	-3.1	56.8	55.7	1.9
Average Weekly Hours							
Manufacturing	39.9	40.1	38.9	2.6	39.4	39.1	0.7
Mining	48.7	44.4	40.3	4.6	42.2	41.1	1.1
Contract Construction	38.0	38.1	35.1	4.3	36.8	37.5	-1.8
Wholesale Trade	39.7	39.6	39.1	1.1	38.0	37.4	1.5
Retail Trade	28.8	28.5	28.4	2.5	27.5	27.9	-1.6
Amount of Unemployment Comp. (thous. of dol.)	6,040.6	5,984.2	6,385.1	-5.3	6,048.4	4,884.2	36.1
Construction							
Total Construction (thous. of dol.)	[illegible],000	126,500	75,000	16.0	95,466.9	97,613.9	-2.2
Residential	52,500	88,000	46,500	12.9	51,251.1	39,722.8	29.0
Nonresidential	29,000	24,000	28,500	1.8	34,966.4	47,682.8	-26.7
Public Works and Utilities	5,600	13,400	5,500	1.8	9,249.1	12,238.8	-24.5
Total Permit Construction (thous. of dol.)[f]	89,455.8	105,702.1	158,704.9	-43.6	85,380.1	85,524.2	-0.2
Residential	44,148.1	50,435.9	38,045.8	16.0	41,538.1	35,599.2	16.7
Nonresidential	45,278.4	43,147.6	113,664.5	-63.2	35,496.0	42,295.3	-16.1
Additions, Alterations and Repairs	7,028.5	12,118.6	6,994.6	0.5	8,884.1	7,629.2	16.5
New Dwelling Units (no.)	1,013	910	889	14.0	971.3	932.9	4.1
Tourism/Travel							
Air Passengers (total no. on and off)	401,931	368,564	392,155	2.5	331,623.4	377,456.1	-12.1
Highway Traffic Count Across State Lines[g]	58,196	54,122	56,815	2.4	40,154.8	39,502.6	1.7
Transient Room Taxes (thous. of dol.)	na	30.3	51.1	na	na	201.6	na
Visits, State, Nat'l. Parks, Monuments (thous.)	2,288.2	2,055.3	2,354.8	-2.8	1,004.6	978.4	2.7
General							
New Cars and Truck Sales	3,456	3,622	1,477	134.0	na	na	na
C.P.I. (National Index -- 1967 = 100)	274.4	273.3	247.8	10.7	259.4	234.4	10.8
Telephones in Service, (Business)	77,426	77,470	76,710	0.9	77,193.7	75,677.3	2.0
Telephones in Service, (Residential)	420,117	419,019	406,952	3.2	420,622.5	405,697.8	3.7
Electric Customers (Commercial)[7]	35,882	36,394	30,042	17.1	na	30,388.7	na
Electric Customers (Residential)[7]	383,434	382,973	344,123	11.4	na	342,559.2	na
Natural Gas Customers (Residential & Commercial)	394,236	384,110	370,344	6.5	380,969.0	368,853.0	3.3
Natural Gas Customers (Industrial)	549	546	564	-2.7	579.5	612.4	-5.4
Production							
Net Electric Power Utilized (mil. of kwh)	1,155.6	1,169.4	1,059.0	9.1	1,086.0	1,024.0	6.1
Crude Oil to Refineries (thous. of bbls.)	4,671.8	5,507.9	4,108.0	13.7	4,249.8	4,467.1	-4.9
Crude Oil Production (thous. of bbls.)	na	na	2,520.2	na	na	2,176.1	na
Natural Gas Production (mil. of cu. ft.)	na	na	5,994.4	na	na	6,570.3	na
Coal (thous. short tons)	781	712	942.3	-17.1	943.8	na	na
Copper (thous. metric tons)[6]	18,804	17,905	48	X	14,980.9	14,765.6	1.5

Utah Business Statistics

Multi-County Planning District Statistical Data

	July 1981	June 1981	July 1980	Change From Year Ago	12 Month Average July 1981	12 Month Average July 1980	% Chg.
Wasatch Front (Salt Lake, Tooele, Davis, Weber, Morgan Counties)							
Non-Ag. Employment (thous.)	391.5	395.9	395.7	-1.1	405.7	403.5	0.5
Auth. Permit Construction (Mil. of dol.)*	44.6	40.6	45.6	-2.2	50.1	47.3	6.0
New Dwelling Units	384	380	471	-18.5	538.9	539.1	X
Postal Receipts (thous.)	5,506.9	4,882.5	4,060.3	35.6	4,830.1	4,316.4	11.9
Electric Customers (Residential)	276,342	276,061	271,705	1.7	274,779.6	267,223.3	2.8
Electric Customers (Commercial)	22,391	22,387	21,609	3.6	22,160.2	21,124.0	4.9
Natural Gas Customers (Residential)	281,913	284,296	275,432	2.4	282,310.1	273,893.2	3.1
Natural Gas Customers (Industrial)	388	409	418	-7.2	427.3	451.6	-5.4
Department Store Sales (mil. of dol.)	37,301	36,819	33,309	12.0	40,087.0	34,343.0	16.7
Salt Lake City							
Non-Ag. Employment (Salt Lake and Tooele)(thous.)*	297.2	299.6	298.6	-0.5	309.1	305.8	1.1
Auth. Permit Construction (mil. of dol.)	17.2	12.9	11.2	53.6	15.8	13.3	18.8
New Dwelling Units	102	118	34	200.0	79.8	37.2	114.4
Postal Receipts (thous.)	4,083.7	3,976.2	3,296.7	23.3	3,881.7	3,515.1	10.4
Natural Gas Customers (Residential)	56,968	56,968	56,347	1.1	57,053.1	56,919.5	0.2
Natural Gas Customers (Industrial)	145	155	159	-8.8	161.3	165.4	-2.5
Telephones in Service (Business)[6]	41,594	41,921	42,236	-1.5	41,880.2	41,921.2	-0.1
Telephones in Service (Residential)[6]	215,166	214,700	209,647	2.6	213,461.2	208,161.2	2.6
Ogden							
Non-Ag. Employment (Weber, Morgan, Davis)(thous.)*	94.3	96.3	97.1	-2.9	97.6	96.5	1.1
Auth. Permit Construction (mil. of dol.)	5.3	5.9	2.9	89.7	4.8	4.5	7.0
New Dwelling Units	7	7	5	40.0	22.8	32.4	-29.7
Postal Receipts	412.6	379.2	330.9	24.7	375.1	338.3	10.9
Natural Gas Customers (Residential)	21,879	22,074	21,436	2.1	21,988.7	21,481.9	2.4
Natural Gas Customers (Industrial)	51	51	54	-5.6	54.8	60.1	-8.9
Telephones in Service (Business)[6]	7,040	7,005	6,913	1.8	6,843.7	6,920.6	-1.8
Telephones in Service (Residential)[6]	43,459	43,456	42,646	1.9	43,320.2	42,436.0	2.1
Mountainland (Utah, Wasatch, Summit Counties)							
Non-Ag. Employment (thous.)	65.8	69.0	64.1	2.7	72.6	72.4	0.2
Auth. Permit Construction (mil. of dol.)*	22.5	22.8	30.1	-25.2	15.0	16.8	-10.5
New Dwelling Units	252	240	304	-17.1	155.0	182.8	-14.9
Postal Receipts (thous.)	370.7	389.5	320.6	15.6	348.7	301.1	15.6
Electric Customers (Residential)	34,704	34,637	33,774	2.8	34,144.1	32,553.8	4.6
Electric Customers (Commercial)	4,005	4,004	3,934	1.8	4,046.8	3,852.5	109.6
Natural Gas Customers (Residential)	58,052	58,052	57,604	0.8	58,058.0	57,604.2	3.7
Natural Gas Customers (Industrial)	70	70	71	-1.4	65.3	70.4	-7.2
Provo							
Non-Ag. Employment (thous.)(Utah Co.)	61.0	61.6	61.1	-0.2	60.9	60.9	-0.1
Auth. Permit Construction (mil. of dol.)*	0.0	0.0	0.0	0.0	2.2	2.0	9.0
New Dwelling Units	21	21	29	-27.6	28.1	35.5	-26.4
Postal Receipts (thous.)	344.2	349.1	308.8	11.5	364.8	306.0	18.2
Natural Gas Customers (Residential)	35,379	35,379	34,911	1.3	35,286.1	35,104.8	5.6
Natural Gas Customers (Industrial)	35	35	34	2.9	34.9	32.7	-8.9
Telephones in Service (Business)	6,153	6,153	6,154	0.0	6,243.3	6,268.4	1.2
Telephones in Service (Residential)[6]	47,442	47,377	46,320	2.4	48,134.7	47,860.8	2.3
Central Utah (Juab, Millard, Sanpete, Sevier, Piute, Wayne Counties)							
Non-Ag. Employment (thous.)	12.4	12.7	12.4	0.0	12.1	12.8	-0.8
Auth. Permit Construction (mil. of dol.)*	2.2	3.4	0.4	450.0	3.4	6.7	-50.0
New Dwelling Units	45	45	27	66.7	39.5	33.8	16.8
Postal Receipts (thous.)	80.4	109.9	69.0	16.4	79.0	65.6	20.4
Electric Customers (Residential)	9,410	9,372	9,083	3.6	9,158.3	8,883.4	3.1
Electric Customers (Commercial)	1,036	1,032	1,008	10.5	1,761.6	1,929.3	-8.7
Uintah Basin (Duchesne, Daggett, Uintah Counties)							
Non-Ag. Employment (thous.)	11.1	11.7	10.7	11.4	11.1	11.0	0.9
Auth. Permit Construction (mil. of dol.)*	5.7	25.0	2.2	111.1	4.4	2.4	81.3
New Dwelling Units	40	65	25	84.0	38.9	22.0	76.9
Postal Receipts (thous.)	87.2	89.1	72.3	20.6	81.4	60.5	34.6
Electric Customers (Residential)	5,212	5,178	4,932	5.7	5,053.4	4,845.7	4.3
Electric Customers (Commercial)	779	764	781	-0.3	735.6	768.5	-4.3
Natural Gas Customers (Residential)	4,730	4,707	4,559	3.9	4,774.5	4,687.1	1.9
Natural Gas Customers (Industrial)	5	5	6	-16.7	5.4	7.0	-22.6
Bear River (Box Elder, Cache, Rich Counties)							
Non-Ag. Employment (thous.)	31.1	32.0	32.0	-2.8	31.9	31.8	0.2
Auth. Permit Construction (mil. of dol.)*	4.0	5.2	5.5	-27.1	5.2	4.4	17.6
New Dwelling Units	95	96	64	48.4	78.4	62.1	26.2
Postal Receipts (thous.)	257.1	251.3	186.7	37.7	234.7	199.6	17.6
Electric Customers (Residential)	25,802	25,748	14,335	80.0	28,266.7	14,066.2	101.0
Electric Customers (Commercial)	3,220	3,203	1,701	89.3	3,552.6	1,692.6	110.0
Natural Gas Customers (Residential)	24,928	25,267	23,877	5.3	24,442.3	23,756.9	2.9
Natural Gas Customers (Industrial)	45	44	43	4.7	46.1	47.5	-3.0
Southeastern (Carbon, Emery, Grand, San Juan Counties)							
Non-Ag. Employment (thous.)	19.7	20.1	19.9	-1.0	19.2	19.9	-3.6
Auth. Permit Construction (mil. of dol.)*	2.5	1.5	2.9	13.8	3.4	2.6	29.5
New Dwelling Units	19	20	27	-29.6	37.5	31.9	17.7
Postal Receipts (thous.)	78.5	65.1	61.4	27.9	na	na	na
Electric Customers (Residential)	11,250	11,142	10,935	2.9	11,112.9	10,705.6	3.8
Electric Customers (Commercial)	1,446	1,440	1,465	-1.3	1,420.4	1,416.3	0.3
Natural Gas Customers (Residential)	9,477	9,524	8,958	5.8	9,464.2	8,911.6	6.2
Natural Gas Customers (Industrial)	13	13	12	8.3	13.8	14.6	-5.6
Southwestern (Beaver, Iron, Washington, Garfield, Kane Counties)							
Non-Ag. Employment (thous.)	16.5	16.8	16.9	-2.4	16.2	16.2	0.0
Auth. Permit Construction (mil. of dol.)*	7.8	4.9	5.2	50.4	4.7	3.8	22.6
New Dwelling Units	162	113	71	128.2	90.0	61.6	46.1
Postal Receipts (thous.)	148.9	115.5	100.9	47.6	111.0	96.1	15.5
Electric Customers (Residential)	1,755	1,745	na	na	na	na	na
Electric Customers (Commercial)	367	365	na	na	na	na	na

DARLENE MONTGOMERY
CONGRESS. INFO SERVICE
7101 WISCONSIN AVE
WASHINGTON, D C
20014

BUSINESS STATISTICS
Sources and Footnotes

Sources:

Agriculture farm marketings, livestock slaughter, farm prices: U.S. Department of Agriculture
Loans, Investments, deposits: Federal Reserve reports
Savings, Savings and Loan Association: Utah savings and loan institutions
U.S. Savings Bonds: U.S. Treasury Department
New Corporations: Utah Secretary of State
Tax Collections: Utah State Tax Commission
Employment data: Utah Department of Employment Security
Construction: Dodge Construction Statistics and BEBR
Air Passengers: Salt Lake International Airport, statistics service
Traffic Count: Utah Department of Transportation, Travel Analysis Unit
Visits to State and National Parks and Monuments: U.S. Forest Service; Utah State Parks and Recreation Department
Truck and car sales: Utah Automobile Dealers Registrations Service Company
Telephone, electric, natural gas customers: cooperating Utah utility companies
Net Electric Power Utilized: cooperating Utah power companies
Crude Oil to Refineries: cooperating Utah oil refineries
Copper production: U.S. Bureau of Mines
Coal production: U.S. Department of Energy
Oil and gas production: State of Utah Division of Oil, Gas and Mining

Footnotes:

* May not add to total due to rounding
[a] End of Period, includes member banks of Federal Reserve System
[b] As of the close of business on last day of the month
[c] Current year—preliminary data; previous year—final figures
[d] Includes nonprofit and religious
[e] Includes public schools and colleges
[f] Total new construction plus additions, alterations and repairs
[g] Beginning January 1979, data reported in metric tons; to convert metric tons to short tons, multiply by 1.10231
[h] Includes Salt Lake County and Bountiful
[i] Includes Weber and Morgan Counties
[j] Includes Orem and Springville
r Revised
x Increase from zero or decrease to zero
na Not available

UTAH ECONOMIC AND BUSINESS REVIEW Vol. 41 No. 9

UTAH ECONOMIC AND BUSINESS REVIEW
BUREAU OF ECONOMIC AND BUSINESS RESEARCH
GRADUATE SCHOOL OF BUSINESS
UNIVERSITY OF UTAH, SALT LAKE CITY, UTAH 84112

David P. Gardner, *President, University of Utah*
James H. Gardner, *Dean, Graduate School of Business*

BUREAU OF ECONOMIC AND BUSINESS RESEARCH

R. Dixon Bobson, Director
Frank C. Hachman, Associate Director

graduate school of business bureau of economic and business research university of utah

STAFF OF THE BUREAU OF ECONOMIC AND BUSINESS RESEARCH

Office Staff
Mari Lou Wood, Office Manager
Cathy Crawford, Administrative Assistant
Diane S. Gillam, Associate Accountant
Lee Carberry, Administrative Secretary
Gaylene Roethel, Administrative Secretary

Research Analysts, Programmers
Ronda Brinkerhoff
Kristin Stark
Paul Nielsen
Gayle Taylor
Jeanine Taylor
Tony Wilcox
Jim Wood

Senior Research Economists
Boyd L. Fjeldsted
Rudger Weaver

Publications Staff
James B. Peters, Graphics